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Application No.

10/076,758 Examiner

Jill L. Heitbrink

Applicant(s)

HAHN ET AL.

Art Unit

1732

√ Rejected
= Allowed

- (Through numeral)
Cancelled

Restricted

N Non-Elected
I Interference

A Appeal
O Objected

|             |  |              |          |  |  |              |  | - 1      |  |                 |
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| Cla         | im   | Ц,           |          |  | _[   | Date         | •  |          | _  | _               |
| Final       | Original   | 180 JZ       |          |  |  |              |  |          |  |                 |
|             | 1<br>2<br>3<br>4<br>5<br>6   | Ņ            |          |  |  |              |  |          |  |                 |
|             | 2  | 1            |          | -  |  |              |  |          |  |                 |
|             | 3  | Ш            |          |  |  |              |  | Н        |  |                 |
|             | 4  | ١,           |          |  | _  |              | _  |          | _  |                 |
|             | 5  | И            |          | Ш  |  | -            |  |          |  |                 |
|             | 6  | <b>V</b>     |          | Н  |  |              |  |          | _  | $\dashv$        |
|             | 7  | H            |          | Н  | _  |              |  | _        | _  | -               |
|             | 8<br>9   | ₩            |          | $\vdash$   |  |              |  |          | _  | Н               |
|             | 10   | Η,           | _        | Н  |  | H            |  | -        | -  | $\dashv$        |
|             | 11   | X            | $\vdash$ | Н  |  |              |  |          | -  | -               |
|             | 12   | 0            | -        | Н  | $\dashv$   | H            |  | $\vdash$ | Н  | H               |
| <b>-</b> -  | 13   | H            | $\vdash$ | Н  | $\vdash$   | $\vdash$     |  | $\vdash$ | -  | $\vdash$        |
| -           | 14   | 7            | $\vdash$ | H  |  | $\vdash$     |  | Н        |  | $\vdash$        |
|             | 15   | ۲            | -        |  |  |              |  | П        | Т  | $\sqcap$        |
|             | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25 | Г            |          | Г  |  |              |  |          |  | $\square$       |
|             | 17   |              |          |  |  |              |  |          |  | П               |
|             | 18   |              |          |  |  |              |  |          |  |                 |
|             | 19   |              |          |  |  |              |  |          |  |                 |
|             | 20   |              |          |  |  |              |  |          |  |                 |
|             | 21   |              |          |  |  |              |  |          |  |                 |
|             | 22   |              |          |  |  |              |  |          | <u> </u>   | Ш               |
|             | 23   | Ļ.           |          | _  | _  |              | _  | _        | _  | Ц               |
|             | 24   | _            |          | -  |  |              | ┝  | <u> </u> | $\vdash$   | $\mathbb{H}$    |
|             | 25   | -            |          | $\vdash$   |  |              | <u> </u>   | -        | -  | $\vdash\vdash$  |
|             | 26<br>27   | $\vdash$     |          | $\vdash$   |  | _            |  | ┢        | ⊢  | Н               |
| <del></del> | 28   | <del> </del> | -        |  | _  | $\vdash$     | <del>                                     </del> | $\vdash$ | ┢╌   | Н               |
| $\vdash$    | 29   |              | H        | -  |  | $\vdash$     | -  | _        | $\vdash$   | П               |
|             | 29<br>30   | t            |          | -  |  | $\vdash$     |  |          |  |                 |
|             | 31   | 1            |          | $\Box$   |  |              |  |          |  |                 |
|             | 32   |              |          |  |  |              |  |          |  |                 |
|             | 31<br>32<br>33   | Ĺ            | L        | <u></u>  | <u>L</u>   | _            |  |          |  |                 |
|             | 34<br>35   | ــــ         | <u> </u> | <u> </u>   | $\vdash$   | <u> </u>     | <u> </u>   |          | L_   | Ш               |
|             | 35   | ـ            | -        | <u> </u>   | <u> </u>   | <u> </u>     | <u> </u>   | _        |  | Н               |
| <u> </u>    | 36   |              | -        | -  | <u> </u>   | $\vdash$     | _  | -        | ⊢  | $\vdash \vdash$ |
|             | 37<br>38   | ├            | $\vdash$ | <del> </del>                                     | $\vdash$   | ├            | $\vdash$   | -        | $\vdash$   | Н               |
| <u> </u>    | 39   | $\vdash$     | -        | <del>                                     </del> | $\vdash$   | <del> </del> | $\vdash$   | $\vdash$ | $\vdash$   | Н               |
|             | 40   | ╁╌           | $\vdash$ | $\vdash$   | <del>                                     </del> |              |  |          | <del>                                     </del> | Н               |
| -           | 41   | T            | $\vdash$ | $\vdash$   |  |              |  |          | $\vdash$   | П               |
| <u> </u>    | 42   |              |          |  |  |              |  |          |  | П               |
|             | 43   |              |          |  |  |              |  |          |  | П               |
|             | 44   |              | Ĺ        |  | <u> </u>   |              | $\Box$   | L.       |  | Ш               |
|             | 45   | <u> </u>     | <u> </u> | <u> </u>   | L  | _            | L  | <u> </u> |  | Ш               |
| <u> </u>    | 46   | $\vdash$     | <u> </u> | ļ  | <u> </u>   | <u> </u>     | $\vdash$   | _        | L  | $\sqcup$        |
|             | 47   |              | <u> </u> | <u> </u>   | $\vdash$   | -            | $\vdash$   | -        | ├  | $\vdash \vdash$ |
|             | 48   |              | -        |  | $\vdash$   | ├            | $\vdash$   | -        | -  | Н               |
| <u> </u>    | 49   | -            | $\vdash$ | $\vdash$   | $\vdash$   | -            | $\vdash$   | -        |  | $\vdash$        |
| L           | 50   | 1_           |          | Ц_   | <u> </u>   | <u> </u>     | L  | L        | L_   | ш               |

| Cla          | im             | Date     |              |          |          |              |          | $\neg$       |          |          |
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|              |                | Date     |              |          |          |              |          |              | $\dashv$ |          |
| Final        | Original       |          |              |          |          |              |          |              |          |          |
|              | 51             |          |              |          |          |              |          |              |          |          |
|              | 52             |          |              |          |          |              |          |              |          | Ш        |
|              | 53<br>54       |          |              |          |          |              |          |              |          | $\dashv$ |
|              | 54             | _        |              | _        |          | _            |          |              |          | $\vdash$ |
|              | 55<br>56       |          |              | H        | $\vdash$ | -            | -        | _            | $\vdash$ | Н        |
|              | 57             |          |              | $\vdash$ |          |              |          |              | -        | $\vdash$ |
| <del> </del> | 58             | _        |              |          |          |              |          |              |          |          |
|              | 59             |          |              | П        |          |              |          |              |          |          |
|              | 60             |          |              |          |          |              |          |              |          |          |
|              | 61             |          |              |          |          |              |          |              | _        | $\Box$   |
|              | 62             |          | $oxed{oxed}$ | Щ        |          |              |          | _            |          |          |
|              | 63             | $\vdash$ | <u> </u>     | -        | $\vdash$ | <u> </u>     | _        | _            | <u> </u> | $\vdash$ |
|              | 64<br>65       | -        | _            | $\vdash$ | -        | $\vdash$     | $\vdash$ | _            | $\vdash$ |          |
|              | 66             | -        | -            | H        | $\vdash$ |              | $\vdash$ |              | ┢        | H        |
| <b></b>      | 66<br>67       | $\vdash$ | -            | -        | Г        |              | $\vdash$ |              |          | H        |
|              | 68             |          | $\vdash$     | 一        | $\vdash$ |              | Г        |              |          |          |
|              | 69             |          |              |          |          |              |          |              |          |          |
|              | 70             |          |              |          |          |              |          |              |          |          |
|              | 71<br>72<br>73 | <u> </u> |              | ļ_       | _        | _            | _        |              | <u> </u> | Ш        |
|              | 72             | _        |              | <u> </u> |          | ┝            |          |              | <u> </u> | Н        |
|              | 73             | <u> </u> |              |          |          |              | ⊢        | _            | $\vdash$ | Н        |
| <u> </u>     | 74<br>75       |          |              | -        | _        | $\vdash$     | -        |              | $\vdash$ | $\vdash$ |
|              | 76             |          |              |          |          | $\vdash$     |          |              | $\vdash$ |          |
|              | 76<br>77       |          |              |          |          |              |          |              |          |          |
|              | 78             |          |              |          |          |              |          |              |          |          |
|              | 79             |          |              | L        | _        | L            | _        | _            | _        | Щ        |
|              | 80             | _        | <u> </u>     | <u> </u> | _        | <u> </u>     | _        | L            | <u> </u> | Н        |
|              | 81<br>82       | -        | _            |          | -        | <del> </del> | $\vdash$ | -            | -        | Н        |
| <u> </u>     | 83             | ⊢        | ├            | -        | ╢        | _            |          | <del> </del> | $\vdash$ | Н        |
| -            | 84             | H        | ┢            |          | $\vdash$ |              | -        | ┢            | $\vdash$ | Н        |
| <b></b>      | 85             | _        | 一            | ┢        | $\vdash$ | T            | -        | Ι-           |          |          |
|              | 86             |          |              |          |          |              |          |              |          |          |
|              | 87             |          |              |          |          |              |          |              |          | П        |
|              | 88             | L        | L            | Ĺ        |          | _            | _        | _            | L        | $\sqcup$ |
|              | 89             | <u> </u> | <u> </u>     | <u> </u> | <u> </u> | <b> </b>     | -        | $\vdash$     | H        | Н        |
| -            | 90<br>91       | $\vdash$ | -            | $\vdash$ | $\vdash$ | ⊢            | $\vdash$ | -            | $\vdash$ | Н        |
| <u> </u>     | 92             | -        | -            | -        | $\vdash$ | $\vdash$     |          | -            | $\vdash$ | Н        |
|              | 93             | $\vdash$ | -            | $\vdash$ | $\vdash$ | -            |          | $\vdash$     | -        | $\vdash$ |
|              | 94             |          |              |          | Г        | Γ            |          |              | Г        | П        |
|              | 95             |          |              |          |          |              |          |              |          |          |
|              | 96             |          |              |          |          |              |          |              | L        |          |
| <u></u>      | 97             |          | ļ            | <u> </u> | <u> </u> | _            | _        | _            | _        | Ш        |
| <u> </u>     | 98             |          | ₽-           | <u> </u> | -        |              | 1        | <u> </u>     | _        | Н        |
| -            | 99<br>100      | ├-       | ├-           | $\vdash$ | $\vdash$ | -            | -        | $\vdash$     | -        | $\vdash$ |
|              | 100            | L        | L_           | L_       | L_       | Ц.           | ـــــا   |              |          | Ш        |

|              | aim                      | Date   |          |          |          |          |              | -        |          |          |
|--------------|--------------------------|--|----------|----------|----------|----------|--------------|----------|----------|----------|
| <u> </u>     |                          | Date   |          |          |          |          |              |          |          |          |
| Final        | Original                 |  |          |          |          |          |              |          |          |          |
|              | 101                      |  |          |          |          |          |              |          |          |          |
|              | 102                      |  |          |          |          |          |              |          |          |          |
|              | 103                      |  |          |          |          |          |              | $\perp$  |          | _        |
|              | 104                      | <u> </u>   |          |          |          |          |              |          |          |          |
|              | 105                      | _  |          | _        |          |          |              |          |          |          |
|              | 106                      |  |          |          |          |          |              |          |          | $\dashv$ |
| <u> </u>     | 107                      | _  | _        |          |          |          |              |          | _        | -        |
| <u> </u>     | 108<br>109               |  | _        | $\vdash$ |          | -        |              |          |          | H        |
| -            | 110                      | $\vdash$   | $\vdash$ | $\vdash$ |          |          |              |          |          | Н        |
| <u> </u>     | 111                      | -  |          |          |          | -        | _            |          |          |          |
| _            | 112                      | $\vdash$   | _        |          |          |          |              |          |          |          |
|              | 113                      | T  | Τ        |          | _        |          | _            |          |          | П        |
|              | 114                      |  |          | Г        |          |          |              |          |          |          |
|              | 115                      |  |          |          |          |          |              |          |          |          |
|              | 116                      |  | Ĺ        |          |          |          |              |          |          |          |
|              | 117                      |  | L        | L        |          |          |              |          |          | Ш        |
|              | 118                      |  |          |          |          |          |              |          |          |          |
|              | 119                      | _  |          | <u> </u> |          |          |              | _        | _        | Ш        |
|              | 120                      |  |          | <u> </u> |          |          |              |          | _        | _        |
|              | 121<br>122               | _  |          | <u> </u> |          | ⊢        |              | _        |          | Н        |
|              | 122                      | ├  | -        | ├        |          | _        |              | -        |          | $\vdash$ |
|              | 123<br>124<br>125        | ├  |          | ⊢        | _        | _        |              | $\vdash$ | -        | $\vdash$ |
| ├─           | 125                      |  |          | -        |          | $\vdash$ | $\vdash$     | $\vdash$ |          | Н        |
|              | 126                      | <del>                                     </del> |          | $\vdash$ |          | $\vdash$ | <del> </del> | -        |          | Н        |
|              | 127                      | -  | _        | $\vdash$ |          | _        |              | -        |          | $\vdash$ |
|              | 126<br>127<br>128<br>129 | $\vdash$   | _        | <b>-</b> |          |          |              |          |          |          |
|              | 129                      | Г  | Т        |          |          | $\vdash$ |              |          |          |          |
|              | l 130                    |  |          |          |          |          |              |          |          |          |
|              | 131                      |  |          |          |          |          |              |          |          |          |
|              | 132                      |  | Ĺ        |          |          | _        | L            | L        | L        |          |
| <u> </u>     | 133                      | ļ  | _        | <u> </u> | L        | <u> </u> | <u> </u>     | L        | _        |          |
|              | 134<br>135               | <u> </u>   | _        | <b>L</b> | <u> </u> | _        | $\vdash$     | L        | <u> </u> |          |
|              | 135                      |  | _        | $\vdash$ | <u> </u> | <u> </u> | <u> </u>     |          | ⊢        |          |
| <u> </u>     | 136                      |  |          | $\vdash$ | $\vdash$ | <u> </u> | -            | -        | $\vdash$ | -        |
| -            | 137<br>138               | -  | -        | -        |          | -        | -            | $\vdash$ | $\vdash$ | $\vdash$ |
| <del> </del> | 139                      | -  | $\vdash$ | $\vdash$ | _        | $\vdash$ | $\vdash$     | $\vdash$ | -        | $\vdash$ |
| $\vdash$     | 140                      | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$ | -        | $\vdash$     | $\vdash$ | -        |          |
|              | 141                      | $\vdash$   | $\vdash$ |          | $\vdash$ | H        | $\vdash$     | Н        | $\vdash$ |          |
|              | 142                      | Н  | T        | $\vdash$ | $\vdash$ | T        | $\vdash$     | Н        | <u> </u> |          |
|              | 143                      | Г  | Π        | 1        | Т        | Γ        |              |          |          |          |
|              | 144                      |  |          |          |          |          |              |          |          |          |
|              | 145                      |  |          |          |          |          |              |          |          |          |
|              | 146                      |  |          |          |          |          |              |          |          |          |
|              | 147                      | $\Box$   | Ĺ        | Ĺ        |          |          | Ĺ            | $\Box$   | Ĺ        |          |
|              | 148                      |  |          | ļ        | L        | L        |              | L        | L        |          |
|              | 149                      | _  | <u> </u> | 1        | L        | L        | _            | L_       | _        | _        |
| <u></u>      | 150                      | L  |          | L        |          |          |              |          | <u> </u> |          |